



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : <b>G06T 7/40</b>		A1	(11) International Publication Number: <b>WO 00/52647</b>
			(43) International Publication Date: 8 September 2000 (08.09.00)
(21) International Application Number: PCT/AU00/00141 (22) International Filing Date: 1 March 2000 (01.03.00) (30) Priority Data: PP 8984                      2 March 1999 (02.03.99)                      AU			
(71) Applicants (for all designated States except US): UNIVERSITY OF ADELAIDE [AU/AU]; CSSIP, SPRI Building, Technology Park Adelaide, Mawson Lakes, S.A. 5095 (AU), UNIVERSITY OF SOUTH AUSTRALIA [AU/AU]; CSSIP, SPRI Building, Technology Park Adelaide, Mawson Lakes, S.A. 5095 (AU), UNIVERSITY OF MELBOURNE [AU/AU]; CSSIP, SPRI Building, Technology Park Adelaide, Mawson Lakes, S.A. 5095 (AU), FLINDERS UNIVERSITY [AU/AU]; CSSIP, SPRI Building, Technology Park Adelaide, Mawson Lakes, S.A. 5095 (AU), UNIVERSITY OF QUEENSLAND [AU/AU]; CSSIP, SPRI Building, Technology Park Adelaide, Mawson Lakes, S.A. 5095 (AU), COMMONWEALTH OF AUSTRALIA (DEFENCE SCIENCE & TECHNOLOGY ORGANISATION) [AU/AU]; CSSIP, SPRI Building, Technology Park Adelaide, Mawson Lakes, S.A. 5095 (AU), TELSTRA CORPORATION LIMITED [AU/AU]; CSSIP, SPRI Building, Technology Park Adelaide, Mawson Lakes, S.A. 5095 (AU), COMPAQ COMPUTER AUSTRALIA PTY. LTD.			
(72) Inventors; and (75) Inventors/Applicants (for US only): JACKWAY, Paul [AU/AU]; 79 Miskin Street, Toowong, QLD 4066 (AU), JONES, Damian [AU/AU]; 107 Gainsborough Street, Moorooka, QLD 4105 (AU).			
(74) Agent: FISHER ADAMS KELLY; Level 13, Amp Place, 10 Eagle Street, Brisbane, Queensland 4000 (AU).			
(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).			
Published With international search report.			

(54) Title: METHOD FOR IMAGE TEXTURE ANALYSIS

## (57) Abstract

A method and apparatus for image texture analysis in which the image is mapped into a first set of binary representation by a monotonically varying operator, such as a threshold operator. Each binary representation in the first set of binary representations is mapped to a further set of binary representations using a second monotonically varying operator, such as a spatial operator. The result of the two mappings is a matrix of binary image representations. Each binary image representation is allocated a scalar value to form an array of scalar values which may be analysed to identify defined texture characteristics.

